Installation Guide

Deluo GPS receivers

Models: GPSUN, GPSS, GPSU

Installation Guide for Deluo™ GPS units

Models: GPSUN, GPSS, GPSU

Before getting started, we would like to take this opportunity to thank you for your purchase. As our customer, your satisfaction in our products is extremely important to us. We know that you had a choice when buying, and we appreciate your choosing Deluo Electronics.

Moving on to the GPS installation, we ask you to keep in mind that not all computers are the same. Occasionally, existing hardware devices and software programs can complicate the installation process. The instructions provided are general and may not satisfy your specific situation. Should you have any questions, or require additional help, please contact us at support@deluo.com.

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STOP if you received a USB GPS, you must run the installation program from the CD BEFORE attaching the GPS Receiver.

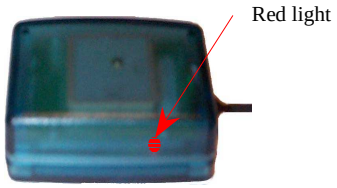
Minimum System Requirements:

- Pentium 166MMX or Mac
- 32MB of RAM
- Windows 98SE, ME, 2000 or XP, Mac OS or Linux (Kernel 2.4 or later)

Information to Remember:

No Buttons: Your Deluo (USB/RS-232/Universal) GPS does not have an on/off switch. It will automatically draw power from your laptop, car (from cigarette lighter adapter) or other device when they are "on."

LED: During the initialization process, the red indicator light inside the Deluo GPS should be blinking. When the Deluo GPS receiver has acquired at least 2 high quality satellite signals the light will become steady and you can begin navigation. **Note:** the indicator light may be hard to see in direct sunlight.



Go Outside! Your Deluo GPS receiver will not work indoors or behind reflective windshields. Hanging your Deluo GPS out the window of your apartment or house is cruel, and probably will not provide the GPS with a sufficient view of the sky. Also, if you have a reflective windshield, we recommend placing the GPS on the top of your car (we built in a magnet for that!).

Take it Slow the First Time: When connecting for the first time, we recommend that you remain stationary until the Deluo GPS recalibrates its location. It may take several minutes, depending on your location and access to clear views of the sky, to determine its position.

… But Not All the Time: Subsequent Deluo GPS uses should require less than 30 seconds to acquire satellite information.

24/7 & No Monthly Service Fee: Your Deluo GPS obtains information from the "free" system of 24 GPS satellites rotating the earth. You should be able to get a position during any time of the day from any place on the surface of the earth provided you have a clear view of the sky. The number of satellites that your GPS is able to acquire (max. of 12) depends on the time of day and your location.

Universal GPS receiver (GPSUN) with PDA Adapter

If you are using a PDA adapter with the Universal GPS, simply install your favorite mapping software on your PDA, connect your GPS unit, and begin using. Don't forget that you must have the GPS adapter cable plugged into the cigarette lighter of your car in order to power the GPS.

Serial GPS receiver (GPSS) or Universal GPS (GPSUN) with Serial Adapter

The GPSS is a Serial GPS Receiver (RS-232) with a built-in antenna. It has two cables that need to be connected to your computer.

Step 1: Insert the Serial (RS-232) DB-9 Female connector, (shown as #1 below) into the Serial port of your computer (shown as #3 below). This cable is used to transmit data from your GPS to your computer.

Step 2: Insert the Mini Din connector (shown as #2 below), into the Mouse/Keyboard interface in the computer (shown as #4 below). This cable is used to transmit power from the computer to the GPS receiver.

Step 3: Turn on your computer and begin enjoying your Deluo GPS!

Note: This unit does not require drivers to be installed in the computer. Your mapping software should automatically detect the GPS unit and will import information. If your software does NOT detect the GPS unit, please see the Troubleshooting section (p. 13-14). Follow the instructions under "Deluo Diagnostic Software" to check the proper functioning of the device.

#3 #4

#1 #2

#1 – GPSS Serial (RS-232) connector for data transfer
#2 - GPSS Mini Din (PS-2) connector for power
#3 – GPSS Serial (RS-232) connected to laptop
#4 – GPSS Mini Din (PS-2) connected to laptop

USB GPS Receiver (GPSU) or Universal GPS (GPSUN) with USB adapter

The GPSU is a USB GPS Receiver with a built-in antenna. This GPS has only one cable, which plugs directly into a USB port on your computer. This cable is used for both data transfer and for supplying power to the GPS.

Note: This unit requires you to install driver files to your computer. The instructions below will help you through the process. After a successful installation of the unit, please follow the instructions under "Verifying the Installation. You can then run the "Deluo Diagnostic Software" to check the proper functioning of the device.

Installation For Microsoft Windows® 98 Second Edition, ME, 2000 or XP:

Step 1: Turn on your computer and wait for the Windows operating system to load. After loading, insert the Rand McNally StreetFinder® CD (US customers) or the GPS drivers CD (non-US customers).

Step 2 : The Installation Program should appear automatically. **If the program does not run**, double click on My Computer on the Desktop and then double click on your CD drive. On this CD, you will see a file called "deluo_menu.exe", please double click this file to start the program.

Step 3: Click on Install USB GPS Drivers and Tools.

FOR WINDOWS XP – PLEASE SEE SPECIAL NOTE

Step 4: When the installation process has finished, close the Installation Program (GPS TOOLS CD).

Step 5: Plug in the Deluo GPS USB connector (#1) to your USB port (#2).

SPECIAL NOTE: Installation of USB GPS and Universal GPS with USB adapter with Windows XP
Before Install the Driver on Windows XP, please visit the Microsoft web page and install the LATEST service pack (SP 1A or higher).

Step 1: Follow Steps 1 to 5

During the installation process on Windows XP this message will appear, just click Continue Anyway.

Step 2: Plug in the Deluo USB GPS. Your computer should say "Found New Hardware," "USB Device, Initializing…"

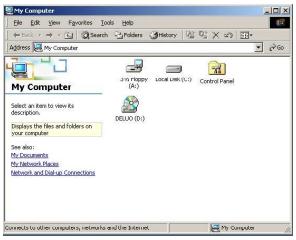
Windows will then welcome you to the "Found New Hardware Wizard." You will then be asked, "What do you want the wizard to do?" Click Next

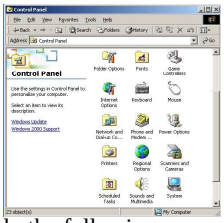
Step 3: The drivers will automatically be installed. You may receive another screen stating that "The software you are initializing has not passed Windows Logo Testing…..", etc. , click "Continue Anyway."

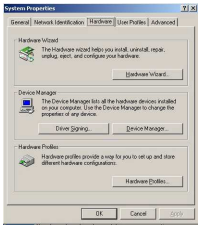
Step 4: Once a Prolific or Deluo device is detected, finish the installation by clicking on "FINISH."

Verifying the Installation:

After the driver installation is finished go to "Device Manager" and you will find a new COM port under the Ports (COM & LPT) category.
(To get to the device manager, open: MY COMPUTER / CONTROL PANEL / SYSTEM / DEVICE MANAGER)





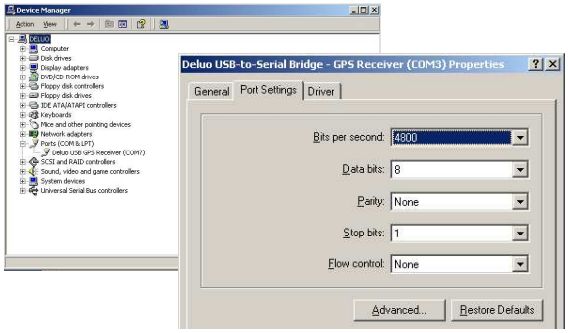


Select Deluo USB - GPS and apply the following properties:

Bits per second: 4800, Data Bits: 8, Parity: None, Stop Bits: 1, Flow Control: None.

NOTE: Remember the COM port number that your GPS has been assigned. You will use this later when setting up your mapping software. For more details on identifying your COM Port, see "COM Port-GPS Connection" on p. 11.

After a successful installation, you can follow the instructions under "Deluo Diagnostic Software" on p. 13-14 to check the proper functioning of the device.



TROUBLESHOOTING

COM Port-GPS connection

Verifying the COM Port for a Serial GPS Receiver (GPSS) or a USB GPS Receiver (GPSU)

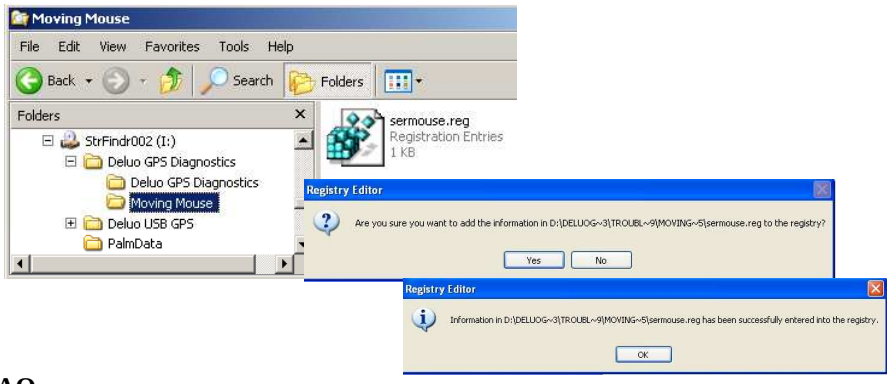
To find out which COM Port you have connected your GPS Receiver to you will have to check the documentation for your computer and the connector where you plugged in the unit. Usually it will be COM1 or COM2.

If you are using a USB GPS, look in your "Device Manager" under COM and LPT Ports. You will find a USB to Serial Bridge port entry. Open the Properties pages for that device and under "Advanced" you will see the COM Port number that the GPS Receiver is connected to. You can also change this setting by selecting a different COM Port number and clicking "OK."

How to disable the MS BallPoint ("Jumping mouse" problem):

If your Windows system recognizes the USB GPS as MS BallPoint Serial Mouse, it is because the NMEA data that the GPS is sending matches the pattern data sent by a BallPoint mouse. In this situation, Windows starts to behave erratically and the mouse pointer appears to jump across the screen.

To solve this issue, please first unplug the GPS. Second, with the CD provided by Deluo in your CD drive, click on START / RUN / BROWSE on your computer. Third, find the sermouse.reg file under the folder entitled "Deluo GPS Diagnostics \ Moving Mouse." Example: Open D:\Deluo GPS Diagnostics\Moving Mouse\, and double click the sermouse.reg file. This command will ask if you want to merge the information to the registry; please select YES. Plug the GPS back in and now the system will behave as expected. Hint: Make sure you select "All Files" when browsing.



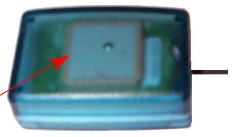
FAQ

Which side goes up?

The GPS has an Antenna on one side and a magnet on the other side; the magnet should be facing down and the antenna should face up.

Magnet
Facing down to the ground

GPS Antenna
Facing up to the sky



How do I identify the correct connectors?

You have to identify the connectors and interfaces on your Laptop.
Take a look at its rear panel, and then try to identify these connectors (your laptop may not have all of these connectors):

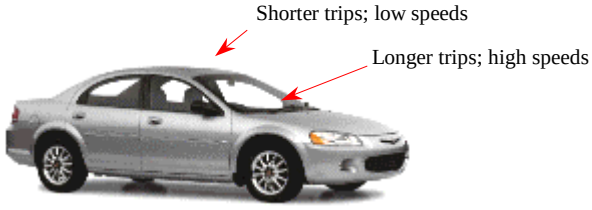
Com Port Type RS-232 Connector DB-9 (9 Pins in 2 rows).

External Keyboard/Mouse Connector.
Type Mini Din 6 Pins

USB Connector

Where do I install my GPS receiver?

For short trips at low speeds you can install your GPS on the roof of your car with a clear view to the sky. For higher speeds and longer trips, you can install it on the dashboard as close as possible to the windshield.



SUPPORT

Deluo Diagnostic Software:

How to install the Deluo Diagnostic software:
It will be installed automatically when you click on Install USB GPS Drivers and Tools on your CD Installation Tools, even you don't have an USB GPS you can install the Diagnostic from it**.**

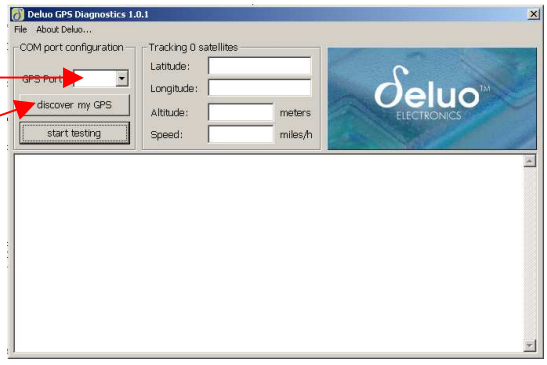
How to Use the Diagnostics Program:

Before using this software, connect the GPS Receiver properly and install the drivers (if necessary).
Browse on the "START" menu for Deluo GPS Diagnostics and open the program.

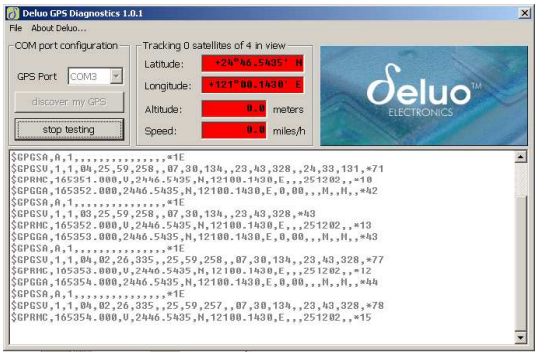
This screen should appear:

Please choose the COM port here.

If you don't know the COM port, click here to auto search.



When the GPS is properly configured, text will appear on the large screen. The longitude and latitude will appear with a red background until the GPS acquires the satellite information (must be outdoors) then the background will become green.



Uninstalling the Drivers from win98/ME/2000/XP:

If you want to uninstall the GPS drivers, first unplug the GPS, browse on hard drive unite where the Deluo applications has been installed, and find the file named DRemover.exe, it will be located at X:\ Program Files\ Deluo Electronics\ Deluo USB GPS Drivers and Tools\ drivers\zzz (where X is you hard drive letter usually "C" and zzz will be your operate system win98me , winxp, , open the Deluo USB GPS folder, then open the Windows 98-2000 folder if you are working on Windows 98 v.2, Windows ME or Windows 2000. If you are working on Windows XP, open the folder called Windows XP. Once inside the appropriate folder, double click on the program called "DRemover.exe."

Once you have clicked on "DRemover.exe," you will be prompted to restart or reboot to complete the removal of the drivers. Click "OK" and reboot your computer.

Support Information:

For technical support, please use our email system support:
support@deluo.com

For billing related questions:
billing@deluo.com

If you want to become a reseller:
resellers@deluo.com

En español:
contacto@deluo.com

Or call us (toll free):

877-885-9090
(Please note that technical support is not provided over the phone. For technical support inquiries, please send an email to support@deluo.com)